

PATIENT NAME: Zyzzyx, Jane  
MRN: 123-45-1001  
DOB: 04/02/1946  
SEX: F  
ACCESSION: SP-07-00103

## PATHOLOGY REPORT

COLLECTION DATE: 01/12/07  
RECEIVED DATE: 01/12/07  
REPORT DATE: 01/19/07

SPECIMEN SUBMITTED:  
Left modified radical mastectomy

ESSENTIAL CLINICAL DATA:  
Left breast mass

### GROSS DESCRIPTION:

Received in formalin is the product of a modified radical mastectomy identified as left and consisting of an ovoid mass of fibrofatty tissue with overlying skin ellipse and detached axillary contents. The specimen measures 27 x 14 x 4 cm in greatest dimension. The skin ellipse is 13.5 cm long by 9 cm in width and exhibits a nipple located slightly superior and lateral to the exact center. Along the medial edge of the nipple is a curvilinear healing surgical incision. Extending directly laterally from this point is a second incision. In total length the incisions together measure 5 cm. Irregular firmness is palpated beneath them. No other cutaneous abnormalities are noted externally. The remaining anterior surface of the specimen is grossly normal. The posterior surface is comprised of thin fascia which is intact and free of visible and palpable abnormalities. The area immediately beneath the skin incision is painted with black ink. Skin and subcutaneous tissues are sectioned perpendicular to the lateral arm of the incision showing extensive underlying bosselated pink tissue suggestive grossly of fibrocystic disease. Superficially immediately beneath the incision is a band of gray-white tissue suggestive of scarring. Within this area located slightly below the level of the incision at the 4 to 5 o'clock position relative to the nipple is an ill-defined area of firm pink discoloration measuring approximately 1 x 1 x 0.8 cm. Slightly medial to this, immediately beneath the nipple and areola and located 2 cm from the overlying skin surface is a very ill-defined area of firm gray and pink discoloration 1.5 x 2.0 x 1.8 cm. At its point of approach, this area is located 1.5 cm the deep fascia. Sections of remaining breast show broad areas of bosselated glistening pink tissue without any other discrete masses or abnormalities. Representative sections are submitted as follows:

- A-D Sections of main tumor with sections of overlying skin and underlying fascia in cassette C
- E Sections of adjacent area of firmness and overlying skin
- F Nipple
- G Uninvolved breast
- H,I Axillary nodes

#### MICROSCOPIC DESCRIPTION:

Sections of the main tumor show it to be composed of large infiltrating nests and files of relatively small, monotonous appearing epithelial cells. These cells contain round to oval, open nuclei with coarsely clumped chromatin and occasional nucleoli. Most cells contain scant cytoplasm which in many instances is clear. A significant population of cells, however, contains moderate quantities of faintly eosinophilic cytoplasm. Those cells are also identified within adjacent lobules which show prominent expansion due to the cellular presence. This is seen well in slide 1A. Cells are present within a densely fibrotic, reactive stroma. Numerous files of cells are seen coursing parallel to collagen fibers. In other areas cells form large masses. Nuclei exhibit mild to moderate variation in size and shape. Five mitoses are identified within ten high power fields. Minimal tubule formation is present, significantly less than 10% of total tumor volume. Tumor extends into adjacent adipose tissue in a distinctly infiltrative fashion. Calcifications are noted within non-malignant lobules (slide 1A). A mild chronic inflammatory infiltrate is present within the stroma. Tumor approaches the overlying skin surface to a distance of 0.92 mm as seen in section 1E. This is in the area of the areola. Sections of nipple show intralobular carcinoma and ductal extension of lobular carcinoma to be present immediately adjacent to main lactating ducts in the mid dermis of the central nipple 4.0 mm from the nipple skin surface. The deep fascial margin beneath the tumor appears free of involvement. Uninvolved breast shows broad areas of fibrosis. Extensive intralobular carcinoma is present near the primary tumor mass. Calcifications within affected lobules are also noted in these areas (slide 1G). Twelve (12) lymph nodes are identified within axillary contents, two of which contain metastatic carcinoma in a pattern identical to that seen within the primary tumor.

#### DIAGNOSIS:

Left modified radical mastectomy:

- Infiltrative moderately differentiated lobular carcinoma arising in the central breast in a subareolar location and affecting the central portions of all four breast quadrants, measuring 2.0 x 1.8 x 1.5 cm approaching the overlying epidermis by 0.92 mm, present within ducts in the nipple 4.0 mm from the cutaneous surface of the nipple, and not involving the deep margin beneath the tumor. Extensive intralobular carcinoma with lobular calcifications is also present immediately adjacent to invasive tumor. Uninvolved breast exhibits prominent fibrocystic changes. Two (2) of twelve (12) axillary lymph nodes contain metastatic carcinoma.

The tumor is classified as moderately differentiated (grade II/III) based on the finding of a minimal tubular component (3 points), moderate nuclear size and shape variation (2

points), and a mitotic count of 5 per 10 high power fields (1 point) according to the Nottingham modification of the Bloom-Richardson classification scheme.

AJCC pT1c pN1a MX

M80103, T04000, T01000, T04100, M55400, M80001, T08000, M080706

ICD9/CPT CODE:  
174.9/88309

**DISCUSSION:**

Immunohistochemical stains for estrogen and progesterone receptors are performed. The majority of tumor cells show strong nuclear positivity for estrogen receptor but borderline positivity in fewer than 5% of nuclei for progesterone receptor.

**DIAGNOSIS:**

Estrogen receptor:	Positive
Progesterone receptor:	Negative

## Acsn # | \_\_\_\_\_ / \_\_\_\_\_

City/St|\_\_\_\_Unknown\_\_\_\_\_|\_ZZ\_| Zip + 4|\_99999\_|\_\_\_\_\_| Area Code/Phone #|\_999\_/\_999\_-\_9999\_|

Comments

City|\_\_\_\_\_| St|\_\_\_\_\_| Zip+4|\_\_\_\_\_|\_\_\_\_\_

Laterality |\_2\_| Dx Confirm |\_1\_| Rpt Src |\_3\_| Casef Src |40\_| Class/Case |\_0\_|

Supporting Text1/12/07-Lt modified radical mastectomy-infil md lobular ca arising in central breast in subareolar regions measuring 2.0cm, present within ducts in the nipple w/ ext intralobular ca adj to invasive tumor. Two of 12 axillary LNS w/ metastatic ca.

DATE INIT DX | 01 / 12 / 2007 | Admit | / / | D/C | / / |

**DX EXT OF DIS** CS Tumor Sz (mm) | 020 | **CS Extension** | 10 | CS T Eval |      |

#LN exam		#LN +	
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CS LN | 26 | CS N Eval |

CS Ver 1<sup>st</sup> | \_\_\_\_\_ | CS Ver Latest | \_\_\_\_\_ |CS Mets | 99 | CS M Eval | \_\_\_\_\_

**CS SS Factors #1**  **#2**  **#3**  **#4**  **#5**  **#6**   
C38.4 only C619 only

**Sum Stage** | 9 | **Version** | CCC | **Derived** | CCC |

Pt	N	M	Stage	Descrip	Staged By	AJCC Ed	CCC
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CT	N	M	Stage	Descrip	Staged By
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Staging Descrip
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Date First Course of Treatment / /  Date Init Rx / /

## Surgery

Date|\_01\_/12\_/2007\_| Surg Prim Site |\_51\_| Scope LN |\_5\_| Other|\_0\_| Reason No Surg |\_0\_|

Date|\_\_\_\_/\_\_\_\_/\_\_\_\_| Surg Prim Site |\_\_\_\_| Scope LN |\_\_\_\_| Other|\_\_\_\_| Reason No Surg |\_\_\_\_|

Date|\_\_\_\_/\_\_\_\_/\_\_\_\_| Surg Prim Site |\_\_\_\_| Scope LN |\_\_\_\_| Other|\_\_\_\_| Reason No Surg |\_\_\_\_|

## OTHER TREATMENT

Date |\_\_\_\_/\_\_\_\_/\_\_\_\_| Radiation Sum |\_\_\_\_| Surg/Rad Seq |\_\_\_\_| Reg Rad Rx Modal |\_\_\_\_|

Date |\_\_\_/\_\_\_/\_\_\_|      Chemotherapy Sum |\_\_\_|

Date | \_\_\_\_/\_\_\_\_/\_\_\_\_ |      Hormone Sum | \_\_\_\_ |

Date / /  BRM Sum  Other Rx Sum  Transpl/Endocr Sum

## PHYS SEQ

N = \_\_\_\_\_

M = \_\_\_\_\_ Ref From \_\_\_\_\_

R = \_\_\_\_\_ Add \_\_\_\_\_

F =	Ref To
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2 = Add

3 = \_\_\_\_\_ Comments: \_\_\_\_\_

## PT STATUS

Date Last Contact |\_01\_|/\_12\_|/\_2007\_| Vital Stat |\_1\_| CA Status || FU Source |\_0\_|

COD (ICD) | | ICD Revision | |

## OVERWRITE FLAGS

Age/Site/Morph	CCC	SeqNo/Dx Conf	CCC	Site/Lat/SeqNo	CCC	Site/Type	CCC	Histol	CCC
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Rept Source	CCC	Ill-def Site	CCC	Leuk,Lymph	CCC	Site/Beh	CCC	Site/Lat/Morph	CCC
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### Additional Data

Census Tract	CCC	Cen Cod Sys	CCC	Cen Year	CCC	Cen Tr Cert	CCC
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NHIA Hisp Orig	CCC	IHS link	CCC	Comp Ethn	CCC	Comp Ethn Src	CCC
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Rec Type	CCC	Unique Pt ID	CCC	Reg ID	CCC	NAACCR Rec Ver	CCC
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**KEY** Data items in **Bold** are required fields. Other data items are optional or “advanced surveillance”  
 [ccc] computed field, no manual input    Shaded are optional non-NPCR items